QC ABSTRACT

NAME OF WORK: Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	6 set /150-200 cum	179.35	12	12
8	RCC(M20)	Compressive Strength(7days and 28days)	1 set		2	2
9	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2022-04-30-37** **Date: 13-01-22**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 10-01-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 11-01-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.28	–
2	Finess by Air permeablity method (m^2/kg,Min)	274.6	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	29%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-30-37** **Date: 08-02-22**
Project Name	:	Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/10/2019-20
Date of Receipt	:	10-01-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	11-01-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.0N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-30-37** **Date: 13-01-22**
Project Name	:	Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/10/2019-20
Date of Receipt	:	10-01-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-01-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	342	342	2.3	97.7	90-100
3	20 mm	5439	5781	38.5	61.5	30-70
4	10 mm	4579	10360	69.1	30.9	10-35
5	4.75 mm	4260	14620	97.5	2.5	0-5
6	Pan	380	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-30-37** **Date: 13-01-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.21	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-30-37** **Date: 13-01-22**
Project Name	:	Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045
Customer Reference	:	BBMP/EE/BTP/WO/10/2019-20
Date of Receipt	:	10-01-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-01-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	214	214	4.3	95.7	90-100
3	10 mm	2435	2649	53.0	47.0	25-55
4	4.75 mm	2134	4783	95.7	4.3	0-10
5	Pan	217	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-30-37** **Date: 13-01-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.48	_
5	Bulk Density(Compacted) (Kg/l)	1.53	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	22.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-30-37** **Date: 13-01-22**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 10-01-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 10-01-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	133	215	21.5	78.5	60-95	75-100	85-100	95-100
4	1.18 mm	179	394	39.4	60.6	30-70	55-90	75-100	90-100
5	600 micron	186	580	58.0	42.0	15-34	35-59	60-79	80-100
6	300 micron	173	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	156	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-30-37** **Date: 13-01-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	0.21	–
2	Specific Gravity	1.58	–
3	Material finer than 75 micron(%)	7.7	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 03/02/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 29-01-22

Customer ID : M20 Chejja

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Chejja	M20	27/01/2022	03/02/2022	149.11 X 151.48 X 149.66	22589	8.599	423.1	18.7	18.4
2	M20 Chejja	M20	27/01/2022	03/02/2022	150.65 X 150.66 X 149.65	22696	8.855	420.0	18.5	
3	M20 Chejja	M20	27/01/2022	03/02/2022	150.43 X 150.91 X 151.84	22701	8.133	409.6	18.0	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 24/02/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 29-01-22

Customer ID : M20 Chejja

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 24/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	M20 Chejja	M20	27/01/2022	24/02/2022	151.59 X 150.51 X 150.10	22816	8.691	514.7	22.6	23.1
2	M20 Chejja	M20	27/01/2022	24/02/2022	151.73 X 149.30 X 150.51	22653	9.086	530.5	23.4	
3	M20 Chejja	M20	27/01/2022	24/02/2022	149.92 X 151.21 X 150.42	22668	8.613	527.3	23.3	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-04-30-37** **Date: 18-03-22**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 15-03-22

Sample Type : Fine Aggregate, M.Sand for Mortar

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 15-03-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	28	28	2.8	97.2	90-100
3	1.18 mm	235	263	26.3	73.7	70-100
4	600 micron	244	507	50.7	49.3	40-100
5	300 micron	198	705	70.5	29.5	5-70
6	150 micron	221	926	92.6	7.4	0-15
7	Pan	74	1000	100.0	0.0	0

CIVIL PRO Sig..... Date..... BANGALORE

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : **CP-2022-04-30-37** **Date: 18-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.48	–
2	Specific Gravity	2.55	–
3	Material finer than 75 micron(%)	10.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.92	–
5	Loose Bulk Density (Kg/litre)	1.78	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR PLASTER SAND

Lab ID	:	CP-2022-04-30-37 **Date: 11-03-22**
Project Name	:	Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/10/2019-20
Date of Receipt	:	07-03-22
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (RA 2019) (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	07-03-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	8	8	0.8	99.2	95-100
3	2.36 mm	22	30	3	97	95-100
4	1.18 mm	48	78	7.8	92.2	90-100
5	600 micron	108	186	18.6	81.4	80-100
6	300 micron	348	534	53.4	46.6	20-65
7	150 micron	392	926	92.6	7.4	0-15
8	Pan	74	1000	100	0	---

CIVIL Pro Sig..... Date..... BANGALORE

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-04-30-37 **Date: 11-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.38	–
2	Specific Gravity	2.52	–
3	Material finer than 75 micron(%)	8.2	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 11-02-22

Lab ID	:	**CP-2022-04-30-37**
Project Name	:	Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/10/2019-20
Date of Receipt	:	07-02-22
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-02-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	401	198	202	16038	32.854	2048.5	2070.2	Not less than 1800Kg/m^3
2	398	199	199	15761	33.017	2094.8		
3	405	202	200	16362	33.826	2067.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.52	4.12	4.08	Shall not be more than 10% by mass
2	33.57	32.04	4.58		
3	33.44	32.26	3.55		

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2022-04-30-37

Date: 11-02-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	201	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	201	202	
3	404	203	201	
4	400	201	202	
5	404	201	200	
6	404	200	199	
7	400	202	201	
8	402	202	201	
9	403	199	202	
10	402	201	202	
11	401	200	201	
12	403	201	203	
13	403	200	203	
14	403	200	201	
15	402	201	200	
16	402	199	199	
17	399	203	203	
18	399	202	201	
19	402	202	202	
20	400	201	199	
Average of 20	**402**	**201**	**201**	

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2022-04-30-37 Date: 11-02-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	201	80538	413.1	5.1	5.1
2	402	201	80955	409.2	5.1	
3	404	203	81906	417.7	5.1	
4	400	201	80550	411.6	5.1	
5	404	201	81113	420.7	5.2	
6	404	200	80815	416.7	5.2	
7	400	202	80838	410.5	5.1	
8	402	202	81276	420.3	5.2	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2022-04-30-37** **Date: 11-02-22**
Project Name	:	Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.
Agency	:	Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045
Customer's Reference	:	BBMP/EE/BTP/WO/10/2019-20
Date of Receipt	:	07-02-22
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2020) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	07-02-22

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	400	101	200	8080	15.065	1864.5	2043.6	Not less than 1800Kg/m^3
2	403	103	201	8343	17.842	2138.5		
3	405	102	200	8262	17.580	2127.8		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.62	3.80	3.83	Shall not be more than 10% by mass
2	33.57	32.06	4.50		
3	33.44	32.37	3.20		

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2022-04-30-37 Date: 11-02-22

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	404	101	200	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	404	100	201	
3	403	102	199	
4	403	102	199	
5	403	102	202	
6	402	100	200	
7	403	101	203	
8	404	101	202	
9	402	101	203	
10	403	102	199	
11	401	100	202	
12	400	101	201	
13	402	103	201	
14	401	100	199	
15	403	100	200	
16	400	102	203	
17	402	100	199	
18	403	102	199	
19	403	103	199	
20	402	102	201	
Average of 20	**402**	**101**	**201**	

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2022-04-30-37 Date: 11-02-22

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	101	40492	184.8	4.6	4.6
2	404	100	40366	183.6	4.5	
3	403	102	41232	189.6	4.6	
4	403	102	41077	186.4	4.5	
5	403	102	40962	183.2	4.5	
6	402	100	40031	190.4	4.8	
7	403	101	40919	186.2	4.5	
8	404	101	40887	189.7	4.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/02/2022

Lab ID : **CP-2022-04-30-37**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	10/02/2022	149.63 X 149.28 X 149.86	22337	8.603	286.1	12.8	12.2
2	PCC	M15	03/02/2022	10/02/2022	149.46 X 151.25 X 150.46	22605	8.200	252.6	11.2	
3	PCC	M15	03/02/2022	10/02/2022	149.60 X 151.58 X 151.36	22677	8.783	285.5	12.6	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 03/03/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	03/03/2022	149.05 X 150.24 X 151.72	22393	8.432	286.1	12.8	12.3
2	PCC	M15	03/02/2022	03/03/2022	151.20 X 150.12 X 149.92	22698	8.821	263.5	11.6	
3	PCC	M15	03/02/2022	03/03/2022	149.31 X 149.73 X 150.65	22356	8.449	276.9	12.4	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 10/02/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	10/02/2022	151.98 X 149.30 X 151.25	22691	8.824	285.1	12.6	12.1
2	PCC	M15	03/02/2022	10/02/2022	151.04 X 150.94 X 149.02	22798	8.606	267.7	11.7	
3	PCC	M15	03/02/2022	10/02/2022	149.61 X 150.55 X 150.98	22523	8.890	270.5	12.0	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 03/03/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	03/03/2022	151.49 X 150.96 X 149.75	22870	9.038	291.3	12.7	12.1
2	PCC	M15	03/02/2022	03/03/2022	151.29 X 150.65 X 151.68	22792	8.192	250.7	11.0	
3	PCC	M15	03/02/2022	03/03/2022	149.29 X 151.25 X 151.38	22581	8.154	286.0	12.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 10/02/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	10/02/2022	150.76 X 149.63 X 150.69	22559	8.351	285.8	12.7	12.2
2	PCC	M15	03/02/2022	10/02/2022	151.07 X 151.02 X 150.67	22816	8.592	263.8	11.6	
3	PCC	M15	03/02/2022	10/02/2022	151.27 X 150.25 X 151.07	22728	8.682	283.5	12.5	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 03/03/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	03/02/2022	03/03/2022	151.12 X 149.26 X 150.12	22556	8.545	289.1	12.8	12.2
2	PCC	M15	03/02/2022	03/03/2022	149.75 X 151.05 X 151.78	22620	9.016	259.1	11.5	
3	PCC	M15	03/02/2022	03/03/2022	149.42 X 150.69 X 150.80	22516	8.554	278.3	12.4	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
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Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 10/02/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	03/02/2022	10/02/2022	151.29 X 151.04 X 150.74	22850	8.375	281.6	12.3	12.2
2	PCC	M15	03/02/2022	10/02/2022	150.57 X 149.60 X 151.61	22526	8.290	259.3	11.5	
3	PCC	M15	03/02/2022	10/02/2022	150.70 X 151.99 X 151.07	22905	8.376	295.4	12.9	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 03/03/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	03/03/2022	151.44 X 149.22 X 151.48	22598	8.724	275.0	12.2	12.0
2	PCC	M15	03/02/2022	03/03/2022	150.55 X 149.05 X 150.69	22440	8.412	259.2	11.5	
3	PCC	M15	03/02/2022	03/03/2022	149.29 X 151.46 X 150.70	22611	8.839	278.2	12.3	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 10/02/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	03/02/2022	10/02/2022	151.55 X 149.44 X 149.35	22647	8.374	286.0	12.6	12.3
2	PCC	M15	03/02/2022	10/02/2022	151.33 X 150.89 X 150.48	22834	8.694	263.1	11.5	
3	PCC	M15	03/02/2022	10/02/2022	151.87 X 149.45 X 149.47	22697	8.476	289.9	12.8	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 03/03/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	03/03/2022	149.48 X 150.08 X 150.04	22434	8.814	288.7	12.9	12.3
2	PCC	M15	03/02/2022	03/03/2022	150.82 X 149.13 X 151.09	22491	8.937	253.2	11.3	
3	PCC	M15	03/02/2022	03/03/2022	150.96 X 151.01 X 150.31	22797	8.929	292.6	12.8	

* The results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 10/02/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/02/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	03/02/2022	10/02/2022	151.46 X 150.85 X 149.85	22848	8.132	275.3	12.0	12.1
2	PCC	M15	03/02/2022	10/02/2022	151.27 X 149.04 X 151.60	22545	8.262	254.2	11.3	
3	PCC	M15	03/02/2022	10/02/2022	151.68 X 151.01 X 149.84	22905	8.262	295.1	12.9	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig. Date. BANGALORE

FOR CIVIL Pro.

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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-30-37** **Date: 03/03/2022**

Project Name : Construction of Basavalingappa Samudaya Bhavana in Byatarayanapura and Construction of Ambedkar Bhavan in Amruthahalli in Ward No.07 Byatarayanapura Kodigehalli Sub Division.

Agency : Sri. K.Shankar Reddy #03, 1st Cross Veeranna Palya, Ramachandrappa Layout, Bangalore-560045

Customer's Reference : BBMP/EE/BTP/WO/10/2019-20

Date of Receipt : 05-02-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	PCC	M15	03/02/2022	03/03/2022	150.65 X 151.80 X 150.01	22868	8.410	286.9	12.5	12.2
2	PCC	M15	03/02/2022	03/03/2022	149.51 X 150.76 X 151.54	22540	8.177	250.7	11.1	
3	PCC	M15	03/02/2022	03/03/2022	151.96 X 149.54 X 151.55	22725	8.191	293.4	12.9	

* The results obtained are satisfactory as per standard requirements.

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